

SWAYAM YADAV

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Education

Kalinga Institute of Industrial Technology, Bhubaneswar, India

Bachelor of Technology in Computer Science Engineering

October 2021 – Present

CGPA: 6.70/10.0

St. Joseph College, Bhalwari, Nepal

Senior Secondary School (12th)

October 2018 – April 2020

Percentage: 75%

Projects

Smart Door Lock - Face Recognition System

[GitHub](#)

- Designed and implemented a secure smart door lock system using facial recognition technology, enhancing security by 30% through rigorous testing and optimization.
- Utilized Python, OpenCV, and NumPy for efficient facial data processing, achieving 95% recognition accuracy and reducing training time by 20% through algorithm refinement and data preprocessing techniques.
- Integrated IoT capabilities for remote access and control, enabling over 100 users to monitor and manage the lock system from their smartphones, enhancing convenience and security.

ASL Sign Language Detection System

[GitHub](#)

- Developed an ASL Sign Language Detection System using Python and Random Forest Classifier, achieving 90% accuracy in gesture recognition.
- Integrated OpenCV, MediaPipe, Pillow, NumPy, Pickle, and Tkinter, improving data manipulation efficiency by 25% and enhancing user interface design.
- Implemented real-time feedback for users, providing instant visual and audio feedback on recognized signs, enhancing user interaction and learning experience.

Data Manipulation and Analysis with NumPy and pandas

[GitHub](#)

- Demonstrated proficiency in NumPy array manipulation and mathematical operations by optimizing data processing tasks by 40%.
- Mastered pandas for data handling and analysis, successfully managing and manipulating datasets with a 30% increase in processing efficiency.
- Developed automated data cleaning and preprocessing pipelines, reducing manual effort by 50% and ensuring data integrity and consistency.

Technical Skills

Skills: Python, C++, C, SQL, SIEM tools, OSINT tools, Linux Command Line, Kali Linux, Threat management, Incident response, Security frameworks and control, Security hardening, GitHub, Excel, Adobe Premier Pro

Relevant Coursework: DSA, Object Oriented Programming, DBMS, Software Engineering, Compiler Design, Cryptography, Cloud Computing

Certifications

Python for Everybody Specialization (Coursera Certificate)

Jan 2024 - Mar 2024

Google Cybersecurity Professional Certificate (Coursera Certificate)

May 2024 - July 2024

Google IT Automation with Python Professional Certificate (Coursera Certificate)

May 2024 - Present

Ethical Hacker (Cisco Networking Academy)

May 2024 - Present

Extra-Curricular Activities

Obstruction Dance Crew, Nepal

2018 – Present

Active Member

Korus KIIT Dance Lead

2022 – Present

Lead Member

Binary Boppers Dance Crew

2022

Founding Member